

# Develop New Products Process

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**Develop New Products Process** 

# Develop New Products Process Overview

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### Agenda

Develop

New

**Products** 

(DNP)

**Process** 

• What is DNP?

• Supporting New Projects

Collaborative Opportunities

Summary





#### What is DNP?

Develop New Products (DNP)

**Process** 

Develop New Products Mission

• Provide the processes, tools, facilities, and training to enable the efficient and successful execution of all the Lab's projects





#### What Is DNP? (cont.'d)

Develop New Products (DNP)

**Process** 

#### **DNP Process Roles**

- Internal Re-engineering
  - Formed by the Laboratory's Executive Council to reduce project cycle-time and cost
  - Responding to changing laboratory (national)
    priorities and NASA requirements
  - Emphasizing product and process improvement
- Contributing to Mission Success by Supporting:
  - Study and proposals teams
  - New project and management teams
  - Engineers and technologists





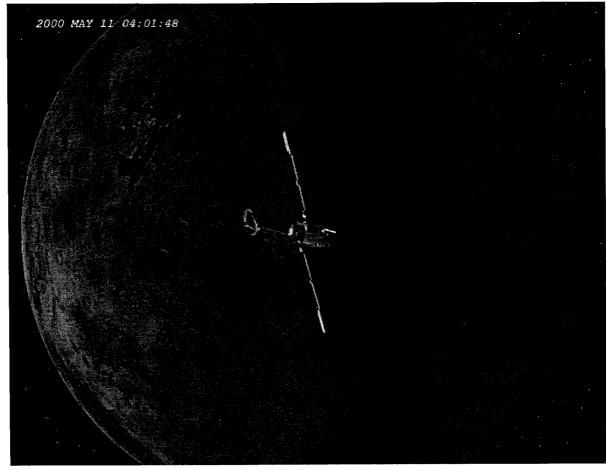
Develop New

**Products** 

(DNP)

**Process** 

## Supporting New Projects



View of MGS Spacecraft in Relation to Mars - UTC Spacecraft Time on Image

5/23/00

DNP-A5

"We are opening up a new frontier on the Red Planet, and we can't afford to overlook anything...We have to make sure we plan it well, provide our people with the tools they need, and do whatever it takes to ensure the best possible chances for success."



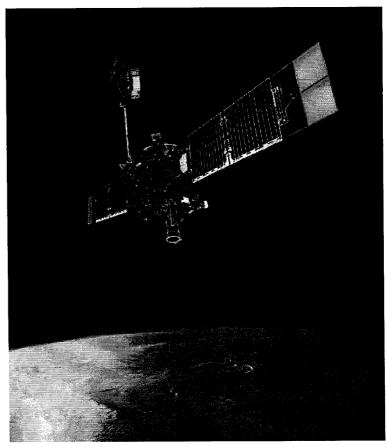
# Supporting New Projects (cont.'d)

Develop New Products (DNP)

**Process** 

DNP is currently supporting new projects in the areas of:

- Project Planning and Formulation
  - Preliminary definition, risk, cost and schedule
  - Requirements definition and management
  - Project reviews and product templates
  - Knowledge access (electronic libraries, team collaboration)
  - Management training (NASA Procedures & Guidelines 7120 compliance)
  - Established infrastructure support



Artists rendering of Mars Global Surveyor over Olympus Mons





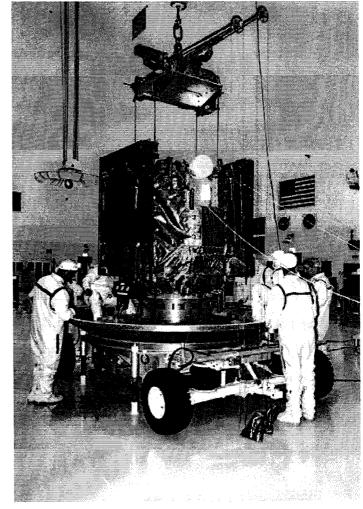
## Supporting New Projects (cont.'d)

Develop New Products (DNP)

**Process** 

DNP also supports new projects in the areas of:

- Engineering Tools and Services
  - Requirements Generation
    Process & Requirements
    Capture Tool (DOORS)
  - Mission visualization tools
  - Electrical, software, and mechanical CAD/CAE tool consolidation
  - Flight Hardware LogisticsProgram (StrategicStockpile)
  - Electronic design using Verilog
  - On-site manufacturing with wire-EDM and 8-axis milling machines



Workers prepare DS1 for testing





# Collaborative Opportunities Working Together More *Effectively*

Develop New Products (DNP) Process

- Business Sharing (NetMeeting, DocuShare)
- Requirements (DOORS)
- Mechanical Designs (Product Viewer)
- Mission Design Review Standard (FastFlight)
- Standard Data Exchange
  (STandard for the Exchange of Product Model Information)
- Virtual Private Network (VPN)





DNP-A8



#### Develop New Products (DNP) Process

#### Summary

- DNP facilitates best practices for projects by providing the layer of efficient institutional processes, tools, and infrastructure
- DNP is looking for ways to work more effectively with partners and contractors
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